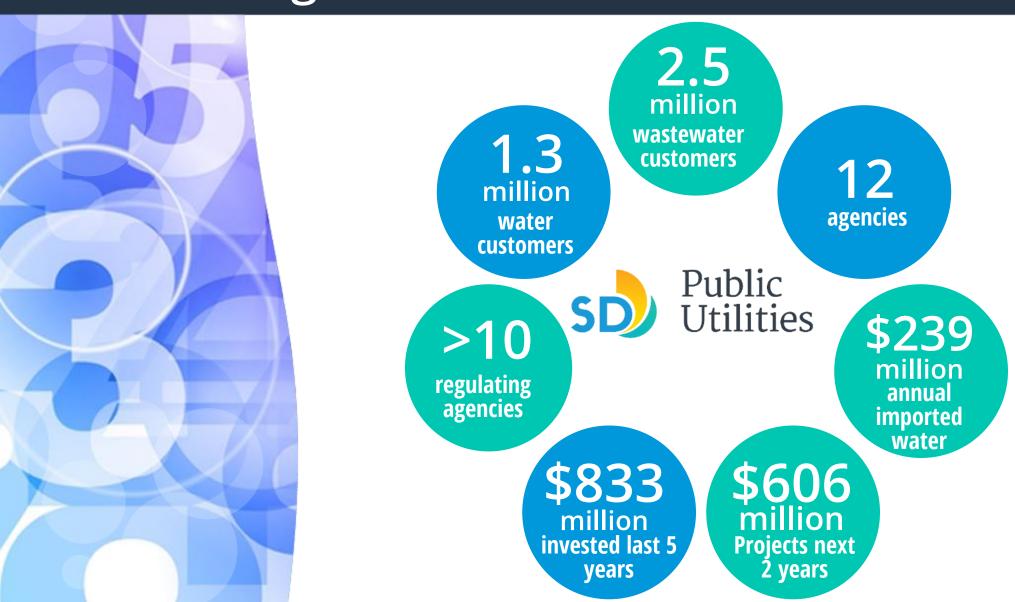
## Pure Water San Diego Program

Public Utilities Department

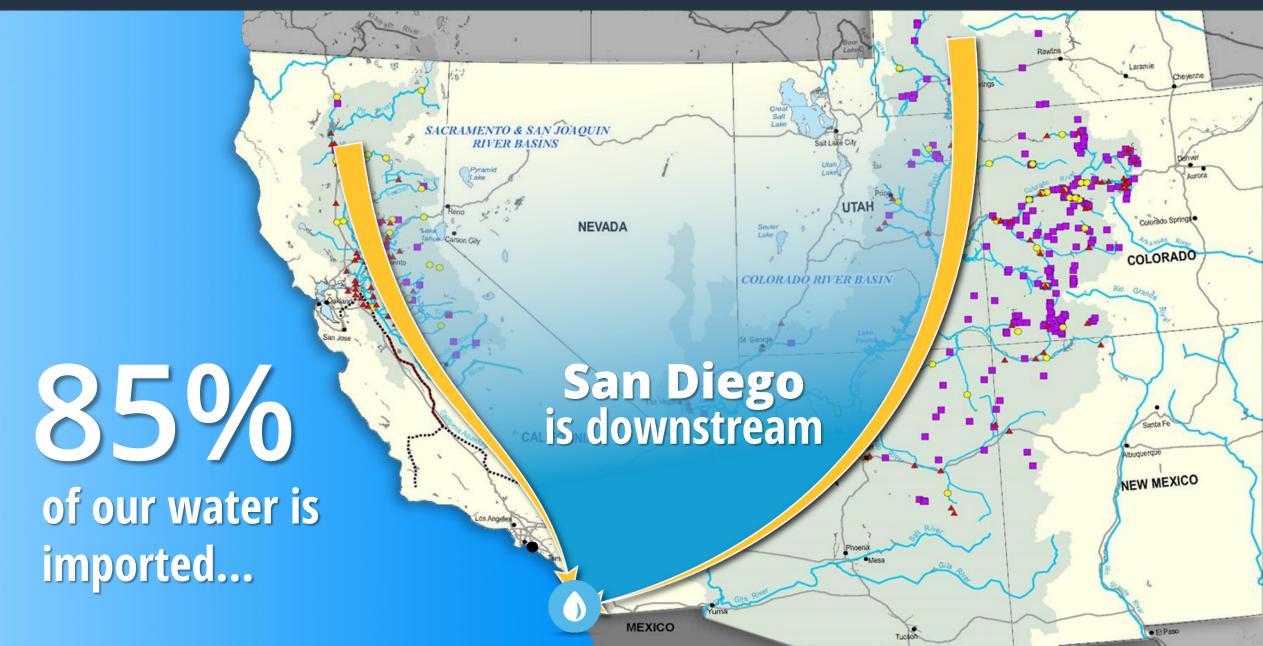


#### San Diego PUD: The Numbers





### San Diego's Water Supply





#### We Face Numerous Water Challenges



- Limited local & imported supplies
- Population growth
- Bay Delta constraints

- Natural disaster risk
- **Rising imported water costs**

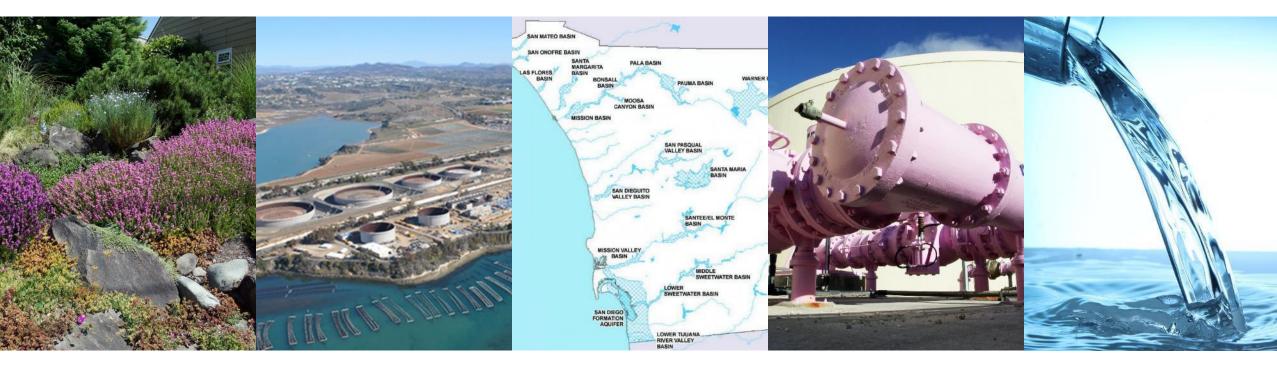
2000

**Recurring drought** 





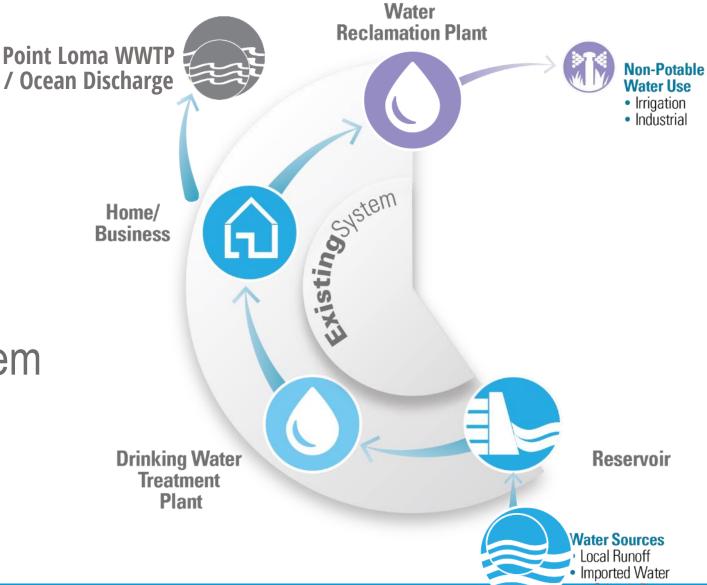
## Multi-faceted Approach



- Conservation
- Desalination
- Groundwater **Development**
- Recycled Water

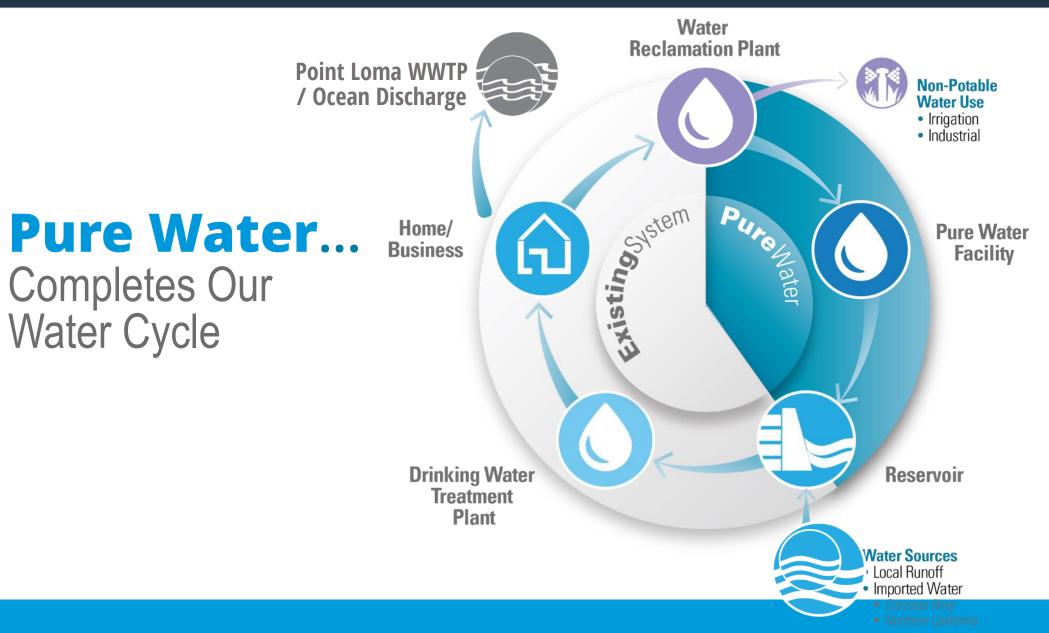
Pure Water **Program** 





Existing
System...
Primarily a
Single-Use System







#### Pure Water Runs a Successful Demonstration Facility



- 28,000 lab tests: Met all standards
- Water quality: Exceptional
- Energy use: Renewable



1/3

of your water locally

#### **Phase 1**

- 2021 Completion
- **30 mgd**
- North City PWF to Miramar

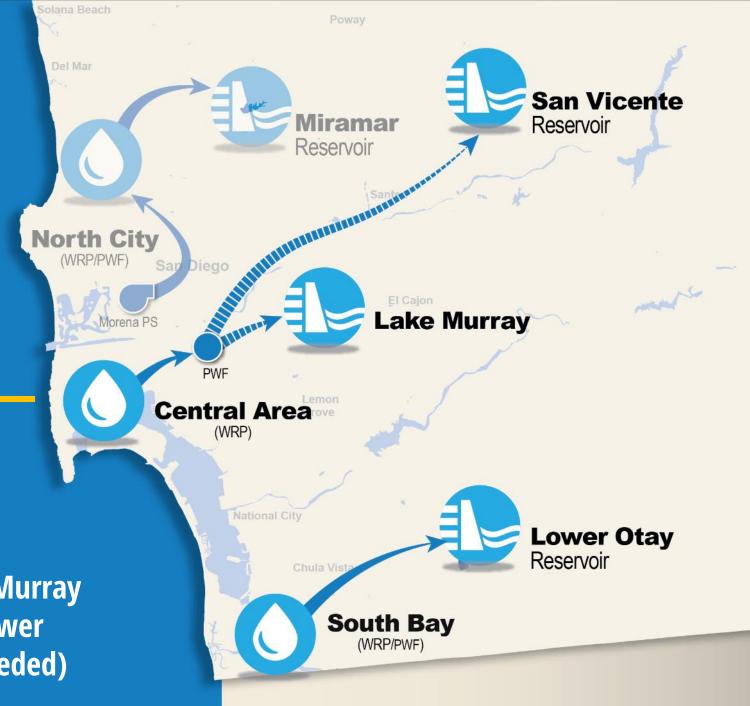


# Pure Water will produce

of your water locally

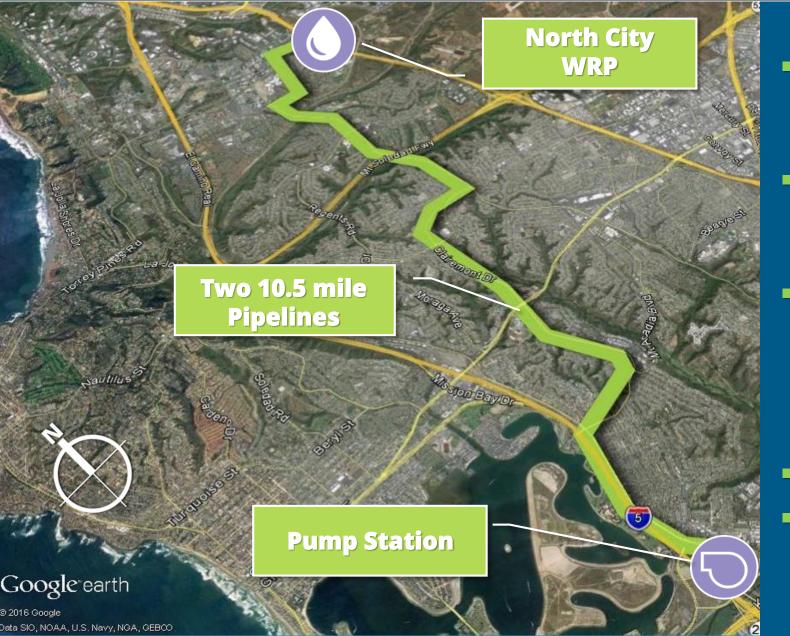
#### Phases 2 & 3

- 2035 Completion
- 53 mgd
- Central Area PWF to San Vicente or Lake Murray
- South Bay PWF to Lower Otay Reservoir (if needed)



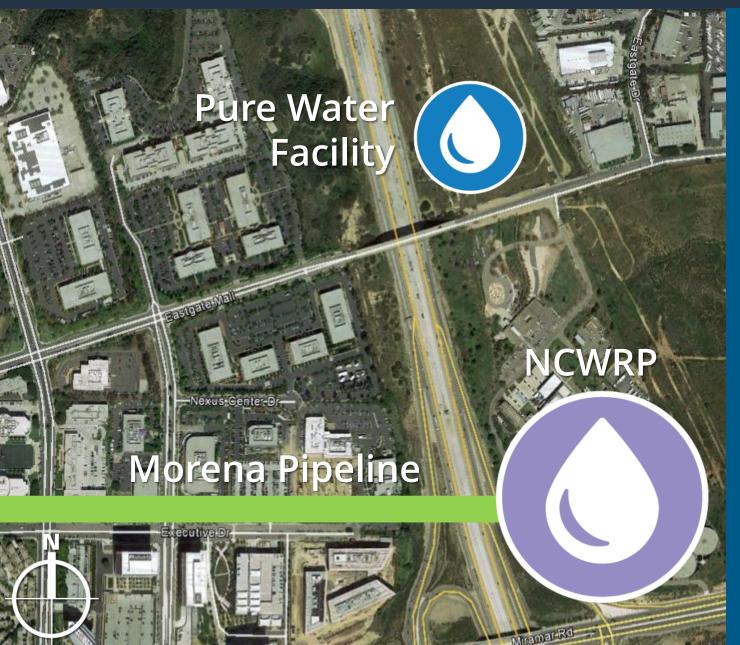


### Morena Pump Station and Pipelines



- Conveys wastewater to North City Water Reclamation Plant
- Supports Phase I Pure Water and recycled water production
- Trenchless construction will be used to avoid:
  - environmentally sensitive areas
  - freeway crossings
- Design completion: Mid 2018
- Construction: Early 2019 Mid 2021

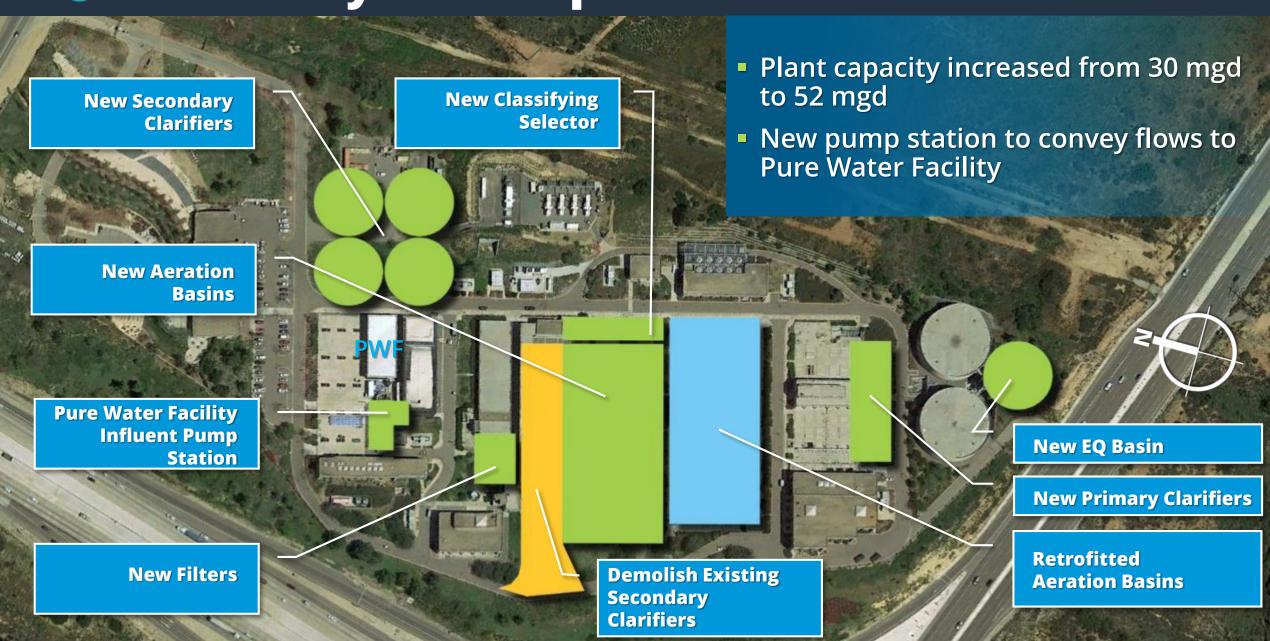
#### North City WRP Expansion



- Treats wastewater to recycled water standards
- Expansion nearly doubles the amount of recycled water produced to meet needs of:
  - Pure Water Facility
  - Recycled Water System
- Design Completion: Mid 2018
- Construction: Early 2019 -Late 2021



## North City WRP Expansion



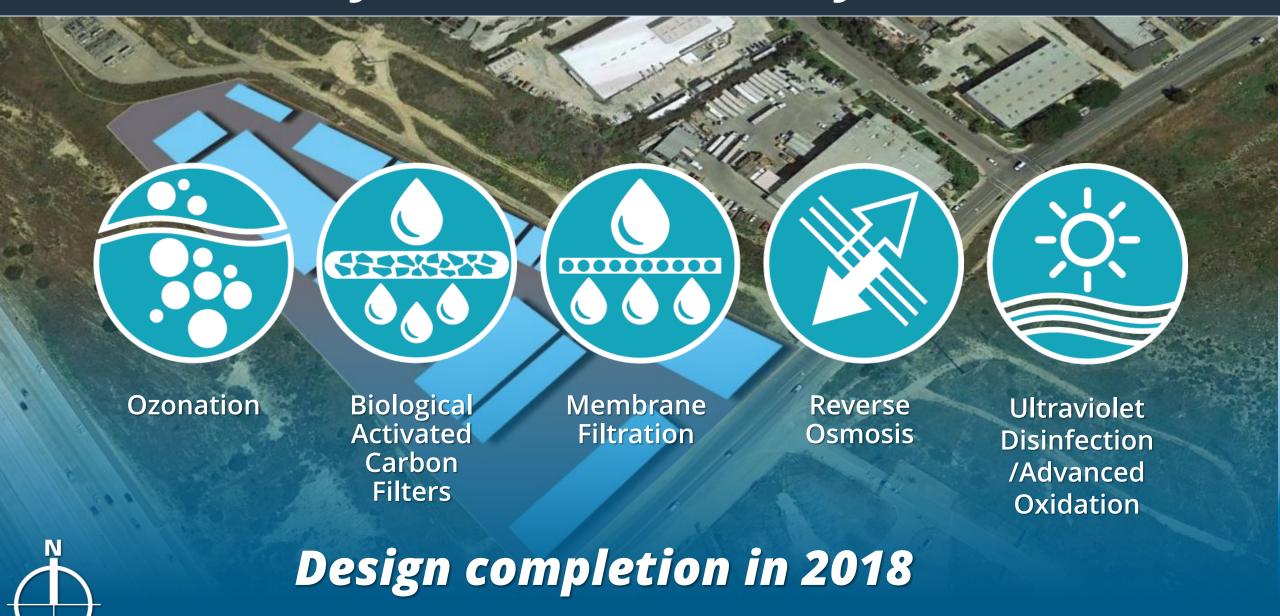


#### **North City Pure Water Facility**



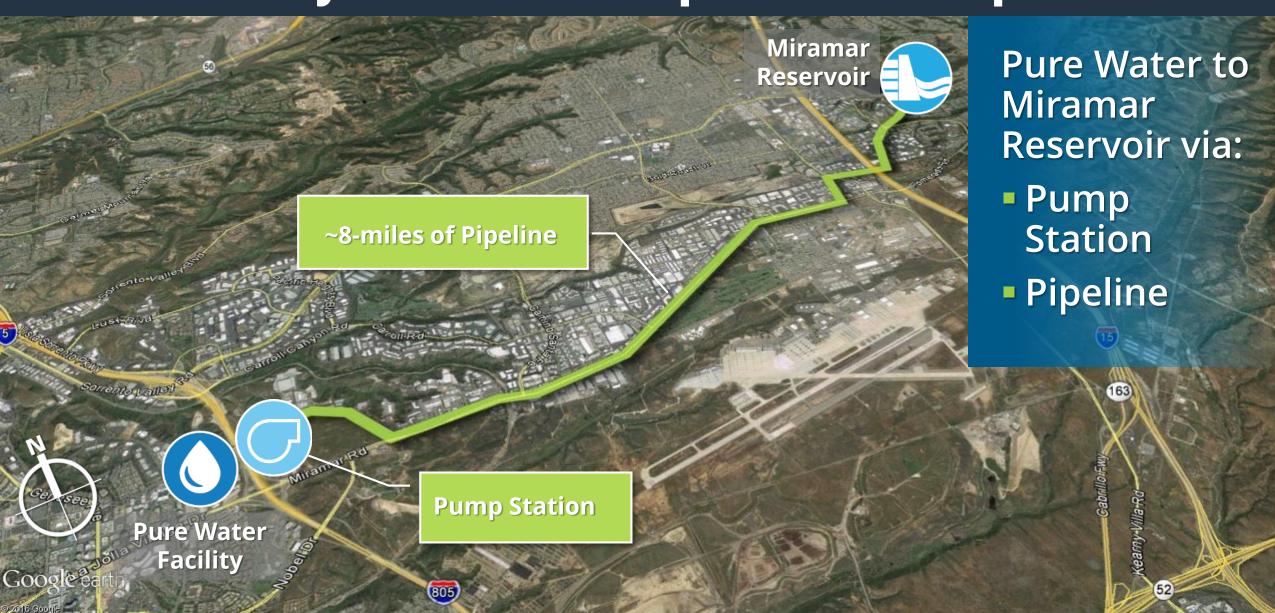
- Treats recycled water to produce 30 mgd of purified water
- Includes a proven 5-step advanced water purification treatment process

## North City Pure Water Facility



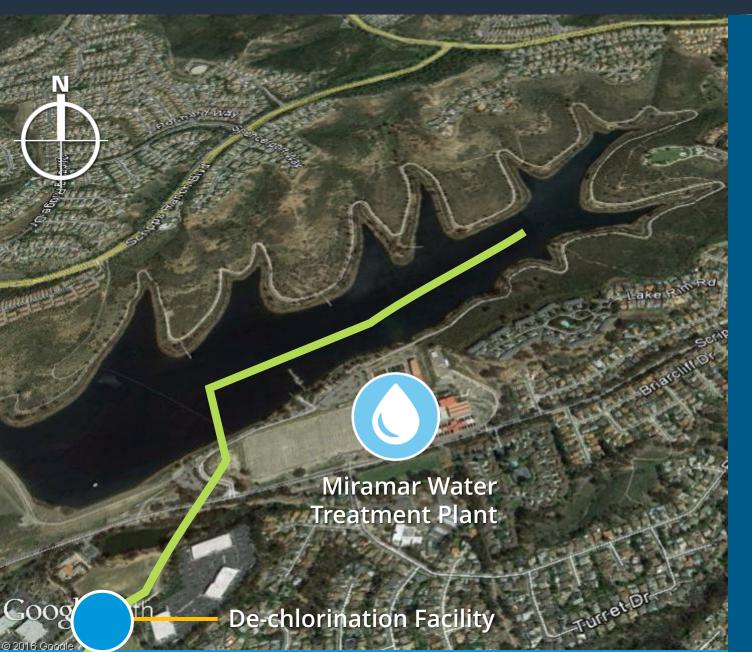


#### North City Pure Water Pump Station and Pipeline





#### Miramar Reservoir



#### The purified water:

- Is released via underwater pipeline in the reservoir
- Will blend with imported and local water supplies
- Design Completion: Early 2018
- Construction: Late 2018 -Late 2021



#### **Sustainability** is Key



- North City Pure Water Facility will Achieve LEED Silver Certification
- During construction 75% of waste will be recycled



#### **Sustainability** is Key



Pure Water provides the City with a safe, reliable and sustainable water supply.



#### Who Supports Pure Water?





















































#### **What** Can I Do?



Join our mailing list and sign a support card